

FIG. 1

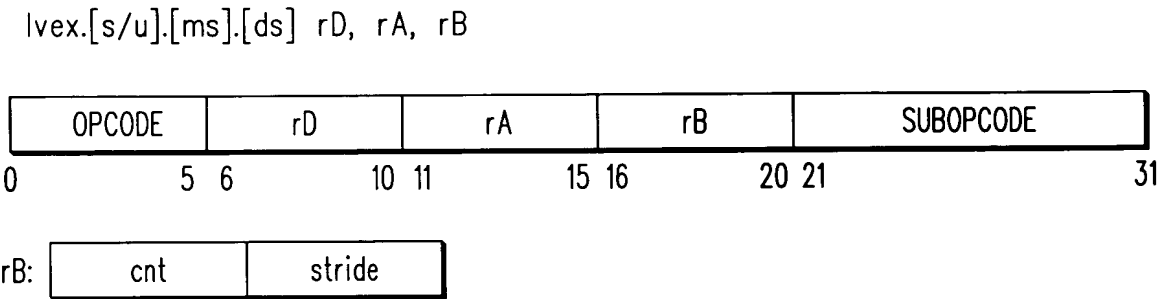


FIG. 2

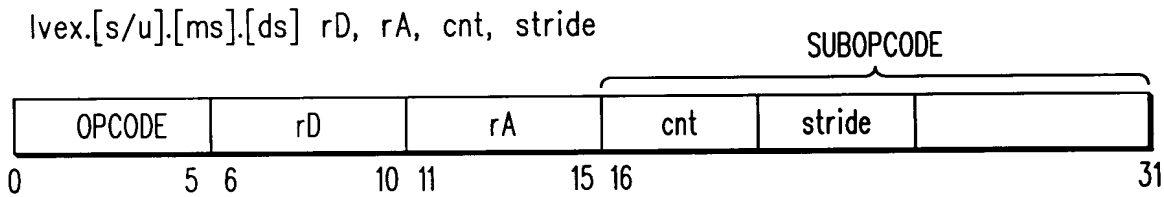


FIG. 3

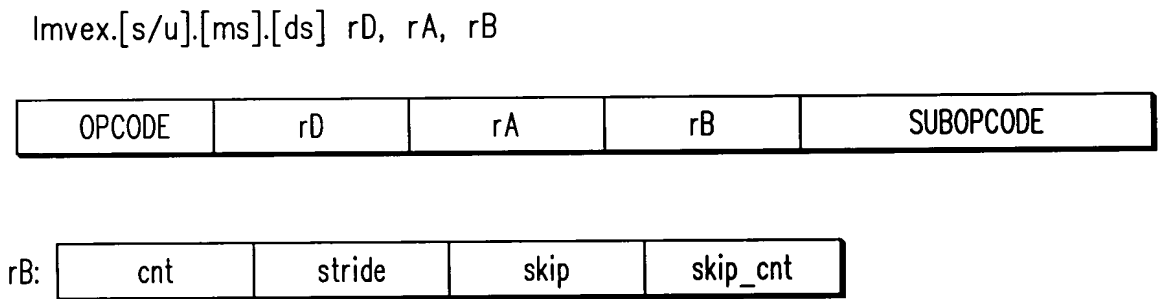


FIG. 4

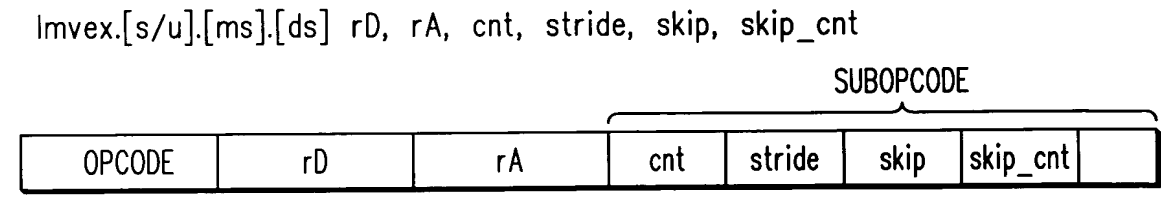


FIG. 5

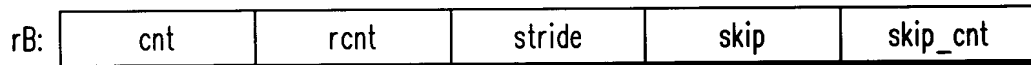
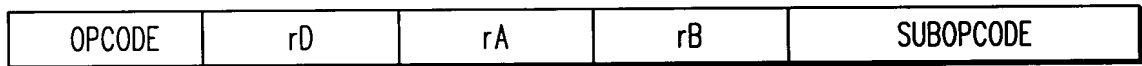
3/12

lmvex2.[s/u].[ms].[ds] rD, rA, rB



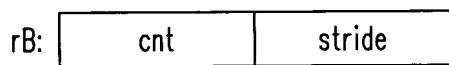
*FIG. 6*

lstrmvex.[s/u].[ms].[ds] rD, rA, rB



*FIG. 7*

stvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



*FIG. 8*

┌

4/12

stmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



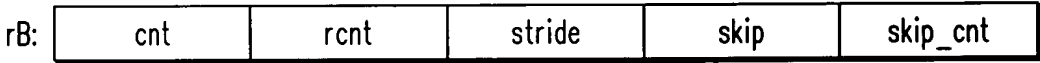
*FIG. 9*

stmvex2.[s/u].[ms].[ss].[h/l] rS, rA, rB



*FIG. 10*

ststmvex.[s/u].[ms].[ss].[h/l] rS, rA, rB



*FIG. 11*

└

5/12

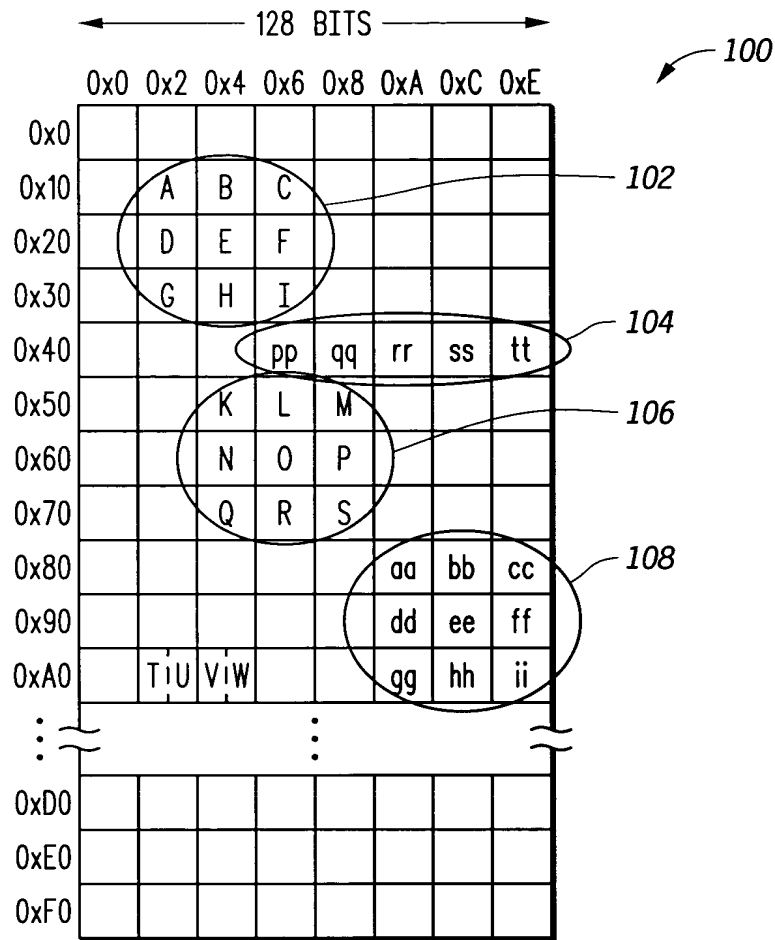


FIG. 12

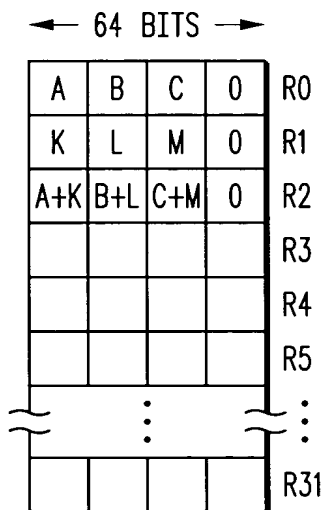


FIG. 13

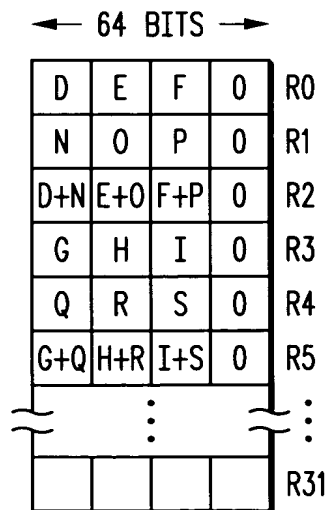


FIG. 14

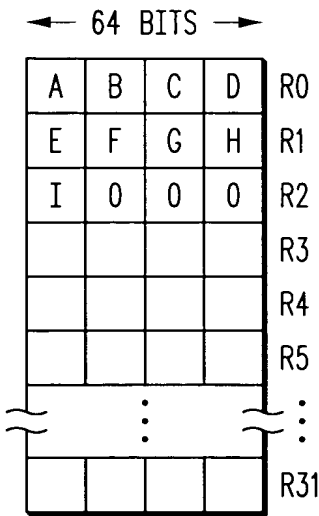


FIG. 15

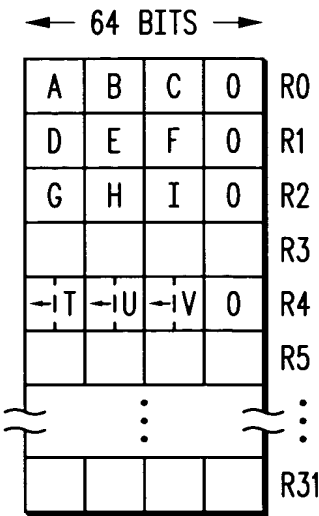


FIG. 16

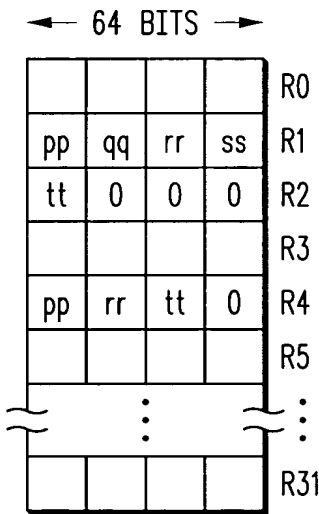


FIG. 17



← 64 BITS →

0x08				R1
0x20				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-4}$	$X_{-3}$	$X_{-2}$	$X_{-1}$	R8
$X_0$	0	0	0	R9
$C_4 \cdot X_{-4} + C_3 \cdot X_{-3} + C_2 \cdot X_{-2} + C_1 \cdot X_{-1}$				R10
$C_0 \cdot X_0 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 19*

← 64 BITS →

0x22				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-3}$	$X_{-2}$	$X_{-1}$	$X_0$	R8
$X_1$	0	0	0	R9
$C_4 \cdot X_{-3} + C_3 \cdot X_{-2} + C_2 \cdot X_{-1} + C_1 \cdot X_0$				R10
$C_0 \cdot X_1 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 20*

← 64 BITS →

0x24				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-2}$	$X_{-1}$	$X_0$	$X_1$	R8
$X_2$	0	0	0	R9
$C_4 \cdot X_{-2} + C_3 \cdot X_{-1} + C_2 \cdot X_0 + C_1 \cdot X_1$				R10
$C_0 \cdot X_2 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 21*

← 64 BITS →

0x26				R2
⋮				
$C_4$	$C_3$	$C_2$	$C_1$	R6
$C_0$	0	0	$C_0$	R7
$X_{-1}$	$X_0$	$X_1$	$X_2$	R8
$X_3$	0	0	0	R9
$C_4 \cdot X_{-1} + C_3 \cdot X_0 + C_2 \cdot X_1 + C_1 \cdot X_2$				R10
$C_0 \cdot X_3 + 0 \cdot 0 + 0 \cdot 0 + 0 \cdot 0$				R11

*FIG. 22*



← 64 BITS →

A	B	C	0	R1
K	N	Q	0	R2
				R3
0x12				R4
0x54				R5

FIG. 23

← 64 BITS →

D	E	F	0	R1
K	N	Q	0	R2
				R3
0x12				R4
0x54				R5
⋮				
$A \cdot K + B \cdot N + C \cdot Q$				R10
				R11
				R12

FIG. 24

← 64 BITS →

G	H	I	0	R1
K	N	Q	0	R2
				R3
0x12				R4
0x54				R5
⋮				
$A \cdot K + B \cdot N + C \cdot Q$				R10
$D \cdot K + E \cdot N + F \cdot Q$				R11
				R12

FIG. 25

← 64 BITS →

G	H	I	0	R1
L	O	R	0	R2
				R3
0x12				R4
0x54				R5
⋮				
$A \cdot K + B \cdot N + C \cdot Q$				R10
$D \cdot K + E \cdot N + F \cdot Q$				R11
$G \cdot K + H \cdot N + I \cdot Q$				R12

FIG. 26

lmvex\_skip\_once.[s/u].[ms].[ds] rD, rA, rB

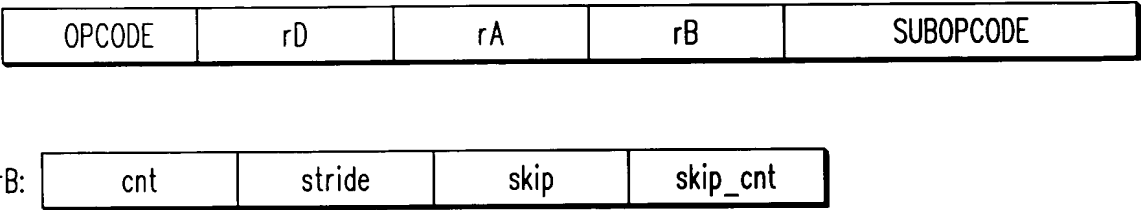


FIG. 27

lmvex\_cb.[s/u].[ms].[ds] rD, rA, rB

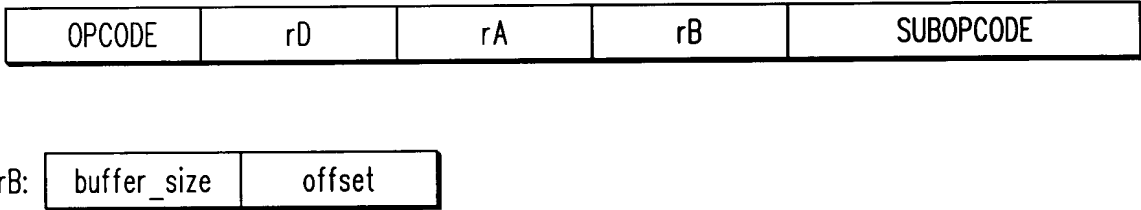


FIG. 28

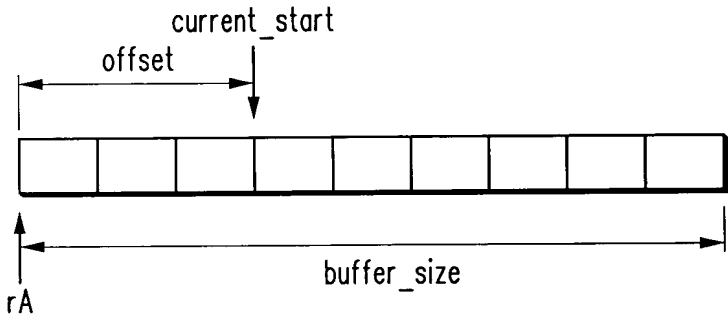


FIG. 29

lstrmvex\_cb.[s/u].[ms].[ds] rD, rA, rB

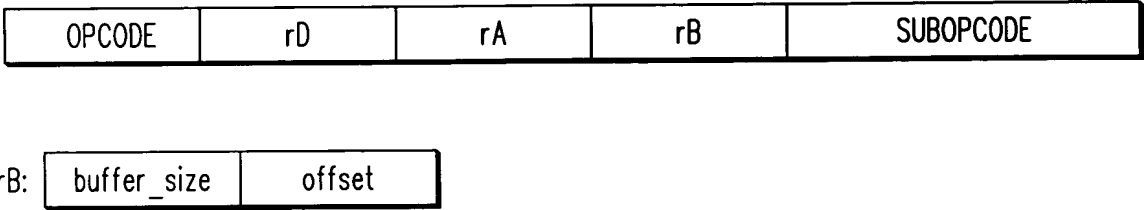
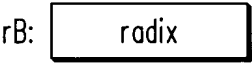


FIG. 30

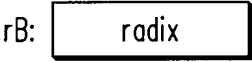
11/12

lmvex\_fft.[s/u].[ms].[ds] rD, rA, rB



*FIG. 31*

stmvex\_fft.[s/u].[ms].[ss] rS, rA, rB



*FIG. 32*

lmstrmvex\_fft.[s/u].[ms].[ds] rD, rA, rB



*FIG. 33*

┌

	0x0						0xE	
0x0								
0x10				X <sub>0</sub>	X <sub>1</sub>	X <sub>2</sub>	X <sub>3</sub>	X <sub>4</sub>
0x20	X <sub>5</sub>	X <sub>6</sub>	X <sub>7</sub>					
0x30								
0x40			Y <sub>0</sub>	Y <sub>4</sub>	Y <sub>6</sub>	Y <sub>2</sub>	Y <sub>1</sub>	Y <sub>5</sub>
0x50	Y <sub>3</sub>	Y <sub>7</sub>						
0x60								

300

FIG. 34

X <sub>0</sub>	X <sub>4</sub>	X <sub>6</sub>	X <sub>2</sub>	R1
X <sub>1</sub>	X <sub>5</sub>	X <sub>3</sub>	X <sub>7</sub>	R2
				R3
Y <sub>0</sub>	Y <sub>1</sub>	Y <sub>2</sub>	Y <sub>3</sub>	R4
Y <sub>4</sub>	Y <sub>5</sub>	Y <sub>6</sub>	Y <sub>7</sub>	R5

FIG. 35

└